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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 6 1991

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OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: ID #062719-00131: Trifluralin® in/on Soybeans: Amended registration (DP Barcode #D170788; CBTS #8832).

FROM: W. T. Chin, Ph.D., Chemist
Tolerance Petition Section III
Chemistry Branch Tolerance Support
Health Effects Division (H7509C)

W. T. Chin

THRU: P. V. Errico, Section Head
Tolerance Petition Section III
Chemistry Branch Tolerance Support
Health Effects Division (H7509C)

P. V. Errico

TO: Joanne Miller, PM #23
Herbicide Branch
Registration Division (H7505C)

Background

DowElanco has requested an amendment to the registered use of their herbicide, Treflan® TR-10, (10% granules, EPA Reg. #62719-131), for treatment of soybeans to control most annual grasses. The amendment calls for use on soybeans under reduced or conservation tillage conditions.

Tolerances

In connection with PP8F0664, 0.05 ppm tolerances for the residue of the herbicide trifluralin, α, α, α -trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine, were established on the following 4 crop groups: forage legumes, fruiting vegetables, leafy vegetables, and seed and pod vegetables (dry or succulent). The 0.05 ppm tolerance on soybeans was covered by the group of seed and pod vegetables (dry or succulent). Tolerances are also established for numerous other rac's ranging from 0.05 to 1.0 ppm under 40 CFR 180.207.



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The Trifluralin Registration Standard is dated 7/3/85; and The Trifluralin Product and Residue Chemistry Reregistration Standard Updates (CBRS's #8100 and 7205; Barcode #D157287 and #D159654) is dated 10/29/91.

Conclusions

1. The nature of trifluralin in/on soybeans is adequately understood. The residue of concern is trifluralin.
2. Enforcement methods are available in PAM I and II.
3. The petitioner is requested to submit residue data for use of Treflan® TR-10 on soybeans to support the amended registration reflecting the maximum proposed rate and incorporated applications both in the fall and prior to planting in the spring.

RECOMMENDATION

CBTS does not recommend for the amended registration for use of Treflan® TR-10 on soybeans under reduced or conservation tillage conditions because of the reason specified in Conclusion #3.

DETAILED CONSIDERATIONS

Registered Use On Soybeans

Treflan® EC (4 lbs a.i./gal of 44.5% technical trifluralin) was registered for use on soybeans to control annual broadleaf and grassy weeds before or after planting at broadcast rates as follows: 1.0, 1.0 and 1.25 a.i. lbs/A/crop for soils with coarse, medium and fine textures, respectively, for fall applications; and 0.5, 0.75 and 1.0 a.i. lbs/A/crop for soils with coarse, medium and fine textures, respectively, for spring applications (see W. J. Boodee's 1/29/68 memo; PP#8F0664).

Proposed Amendment Use

The amended registration is for a preplant incorporated use of a new formulation Treflan® TR-10, a 10% granules, on soybeans under reduced or conservation tillage conditions at slightly higher rates as follows: 0.75-1.0, 1.0-1.25 and 1.25-1.5 a.i. lbs/A/crop

for soils with coarse, medium and fine textures, respectively, for fall applications; and 0.5-0.75, 0.75-1.0 and 1.0-1.25 a.i. lbs/A/crop for soils with coarse, medium and fine textures, respectively, for spring applications. Applications could be made in both the fall and prior to planting in the spring.

Residue Data

No residue data are submitted to support this amendment. By a telephone conversation on 11/19/91, the petitioner (Dr. D. H. Lade) indicated that the Treflan® EC formulation for use on soybeans and other crops has been replaced by Treflan® TR-10 for years without changing the residue patterns of trifluralin. CBTS cannot accept this explanation because no residue data from use of Treflan® TR-10 on soybeans or other crops are available. The petitioner, therefore, is requested to submit residue data for use of Treflan® TR-10 on soybeans to support the amended registration using the maximum proposed rate and preplant incorporated applications in both the fall and prior to planting in the spring.

cc: Circ, RF, PP#8F0664, SF(trifluralin) W.T.Chin, R.B.Quick,

RDI: P.V.Errico(12/4/91), R.Loranger(12/4/91)
H709C: CBTS: CM#2, RM812, 557-4352, W.T.Chin,wc(12/5/91)